INDEX

A

ADAIR, JOHN. See Stout, F. M., 46.
Agria affinis (Fall.), effect of fatty acids on growth rate of, 409.
AMERICAN INSTITUTE OF NUTRITION. Proceedings 24th Annual Meeting, 473.
Amino acid(s), availability in maize, 447.
— —, availability to man of isoleucine from corn, 397.
— —, availability to man of threonine from corn, 389.
— — diet, and growth response of rats to glutamic acid, 163.
— — imbalance, and high arginine requirement of casein-fed chicks, 16.
— — imbalance. V. Effect of an amino acid imbalance involving niacin on liver pyridine nucleotide concentration in rat, 302.
— —, indispensable, for sockeye salmon, 340.
— — mixture, rate of digestion in rats, 331.
— —, multiple, supplementation of white corn meal, 415.
— — reference patterns: pattern of human milk compared with FAO pattern in human nutrition, 404.
— — requirements for maintenance in adult rooster. IV. Requirements for methionine, cystine, phenylalanine, tyrosine and tryptophan; adequacy, 8.
— — supplementation of bread protein, 423.
Antibiotics and plasma cholesterol in the mouse, 368.
Antibody formation to influenza virus PR-8 and pantothenic acid, pyridoxine and thiamine in rats, 325.
Antioxidants, selenium and type of yeast, influence on vitamin E deficiency in adult chicken, 23.
Arginine deficiency in chick, pathology of, 347.
— requirement of casein-fed chicks and amino acid imbalance, 16.
Ascorbic acid, role in peripheral vascular physiology compared with rutin and hesperidin: micromanipulative study, 203.
ASHTON, G. C. See Sibbald, I. R., 441.
Aureomycin and dietary carbohydrates, effect on serum and liver cholesterol in rats, 93.
—, effect on plasma cholesterol of weanling mouse, 375.
AXELROD, A. E., AND SARAH HOPPER. Effects of pantothenic acid, pyridoxine and thiamine deficiencies upon antibody formation to influenza virus PR-8 in rats, 325.

B

BAJUSZ, EORS. See Selye, Hans, 37.
BARLOW, J. S. See House, H. L., 409.
BARNETT, B. D. See Lease, J. G., 66.
BEARDSLEY, D. R. See Goering, K. J., 210.
Beef proteins, rate of digestion in rats, 331.
BERTAZZOLI, CESARE, TEA CHIELI, AURELIO DI MARCO AND ENRICO TUROLLA. A new analogue of vitamin B_{12} more efficient for growth response of rats, 467.
Bile acids, effect on plasma cholesterol in the mouse, 379.
Borden award in nutrition, 1961, invitation, 105, 262, 387.
BOSSHARDT, D. K. See Howe, E. E., 368, 375, 379.
BOWMAN, OLLIE M., AND I. A. DYER. Experimentally induced muscular dystrophy: blood creatine levels and histopathological changes in dystrophic rabbits, 289.
BOYER, AUDREY. See Snyderman, Selma E., 404.
BRADLEY, W. B. See Hepburn, F. N., 163.
BRIGGS, G. M. See Spivey Fox, M. R., 243.
BUNN, CLARA R. See Matrone, Gennard, 459.

C

CAMPBELL, J. A. See Morrison, A. B., 435.
Calcium and phosphorus supplements in bread formulas and diets, cariostatic effect in the rat, 131.
CALHOUN, W. K. See Hepburn, F. N., 163.
Caloric intake, effect on nitrogen retention and lysine requirements of adult human subjects, 87.
Carbohydrates, dietary, and Aureomycin, effect on serum and liver cholesterol in rats, 93.
Cardiac lesions and related findings in young vitamin B_6-deficient rats, 53.
Caries, dental—influence of diet on composition of mineralized tissues and on susceptibility of enamel to erosion *in vivo*. I. Phosphorus, 224.
Cariostatic effect of phosphorus and calcium supplements in bread formulas and diets, in the rat, 131.
Cataractogenesis in weanling rat, relationship between metabolism of xylose and, 309.
Catecholamine content of rat tissue, effect of pyridoxine, riboflavin and thiamine deficiencies on, 145.
Cellulose metabolism in the rat, site of, 353.
— - or kaolin-diluted rations, effect on weight gain and feed intake of chick, 441.
CENTURY, BERNARD, AND M. K. HORWITT. Role of diet lipids in the appearance of dystrophy and creatinuria in the vitamin E-deficient rat, 357.
CHEN, M–L. See Rogers, Q. R., 331.
CHEVREUL, MICHEL EUGENE, biography, 3.
CHIELI, TEA. See Bertazzoli, Cesare, 467.
Children, preadolescent, sulfur balance with three levels of nitrogen intake, 314.
CHIRICOS, MICHAEL A., A. N. MEISS, JOHN J. PISANO AND M. WIGHT TAYLOR. Growth response of the confused flour beetle, *Tribolium confusum* (Duval) to six selected protein sources, 121.
Cholesterol metabolism, effect of pyridoxine on, 81.
—, plasma, and antibiotics in the mouse, 368.
—, —, effect of bile acids on, in the mouse, 379.

—, —, effect of purified linoleic ester in rat, 196.
—, —, in weanling rat, influence of Aureomycin on, 375.
—, serum and fat, dietary hormones, transaminases and copper in swine, 77.
—, serum and liver, influence of dietary carbohydrates and Aureomycin on, 93.
CHOW, BACON F. See Okuda, Kunio, 99.
CLARK, HELEN E., S. P. YANG, LOIS L. REITZ AND EDWIN T. MERTZ. The effect of certain factors on nitrogen retention and lysine requirements of adult human subjects. I. Total caloric intake, 87.
Cold exposure and L-thyroxine, effects on food consumption and absorption by the rat, 283.
Copper and iron metabolism and growth of rats fed high levels of zinc, 233.
—, transaminases, dietary hormones and fat and serum cholesterol in swine, 77.
"Cotton-fur" abnormality in mink and aberrant iron metabolism, 46.
COUCH, J. R. See Rahman, M. M., 71.
COX, DENNIS H., AND OTHO M. HALE. Dietary hormones and fat and serum cholesterol, transaminases and copper in swine, 77.
CRAMPTON, E. W., FLORENCE A. FARMER, HELEN B. MCKIRDY, L. E. LLOYD, E. DONEFER AND DONNA J. SCHAD. A statistical study of apparent digestibility coefficients of the energy-yielding components of a nutritionally adequate mixed diet consumed by 103 young human adults, 177.
Creatine, blood, levels and histopathological changes in dystrophic rabbits, 289.
CURRAN, W. A., JR. See Goering, K. J., 210.
Cystine, adequacy of determined requirement in adult rooster, 8.

D

DAVIES, R. E. See Rahman, M. M., 71.
DE MUELENAERE, HECTOR, AND RUTH FELDMAN. Availability of amino acids in maize, 447.
Deoxypyridoxine or isoniazid, effect on tissue K and Na content of pyridoxine-deficient rats, 297.
DEYOE, C. W. See Rahman, M. M., 71.
Digestibility coefficients, apparent, of energy-yielding components of mixed diet by young adults, statistical study, 177.
Digestion of various proteins by rats, rate of, 331.
DI MARCO, AURELIO. See Bertazzoli, Cesare, 467.
Diuresis, effect on riboflavin excretion in humans, 251.
DONEFER, E. See Crampton, E. W., 177.
DRAKE, T. G. H., tribute following death of, 473.
DWYER, ELIZABETH J. See Ellis, Lillian N., 224.
DYER, I. A. See Bowman, Ollie M., 289.

E

ECKERT, R. E. See Rosenberg, Hans R., 415, 423.
EDDY, WALTER H., tribute following death of, 473.
EDWARDS, CECILE H., EVELYN L. GADSDEN AND GERALD A. EDWARDS. Utilization of methionine by the adult rat. I. Distribution of the α-carbon of DL-methionine-2-C^{14} in tissues, tissue fractions, expired carbon dioxide, blood and excreta, 185.
EDWARDS, GERALD A. See Edwards, Cecile H., 185.
Egg albumin, rate of digestion in rats, 331.
ELLIS, LILLIAN N., AND ELIZABETH J. DWYER. The influence of dietary factors upon the composition of mineralized tissues and upon the susceptibility of enamel to erosion *in vivo*. I. Phosphorus, 224.
Energy, digestible, conversion to metabolizable energy by calculation, 177.
Ethionine, effect on functional pancreatic damage, and relation to methionine deficiency in rat, 265.
Ethylenediaminetetraacetic acid, disodium salt, in a sesame meal ration, influence on chick leg deformity, 66.
Exudative diathesis and selenium in chicks and poults, 71.

F

FARMER, FLORENCE A. See Crampton E. W., 177.
Fat(s), nutritional value after use in commercial deep-fat frying, 109.
— utilization in fluoride-fed rat, 429.
Fatty acids, oleic and other, effect on growth rate of *Agria affinis* (Fall.) (Diptera: Sarcophagidae), 409.
— —, ruminal, of sheep fed purified diets, precursors of, 277.
FELDMAN, RUTH. See De Muelenaere, Hector, 447.
FISHER, HANS, R. SHAPIRO AND P. GRIMINGER. Further aspects of amino acid imbalance, with special reference to the high arginine requirement of chicks fed casein diets, 16.
FISHER, HANS. See Leveille, G. A., 8.
FISHER, HANS. See Summers, J. D., 153.
Fluoride-fed rat and fat utilization, 429.
FOX, HAZEL METZ. See Linkswiler, Hellen, 389, 397.
FREDRICKSON, R. L. See Overby, L. R., 293.
FRENCH, CYRUS E., tribute following death of, 473.
FRY, PEGGY CROOKE. See Linkswiler, Hellen, 389, 397.

G

GADSDEN, EVELYN L. See Edwards, Cecile H., 185.
GAMBLE, JAMES L., tribute following death of, 473.
GEIGER, ERNEST, tribute following death of, 473.
Gelatin, rate of digestion in rats, 331.
Gliadin, rate of digestion in rats, 331.
Glutamic acid and growth response of rats fed an amino acid diet, 163.
GOERING, K. J., O. O. THOMAS, D. R. BEARDSLEY AND W. A. CURRAN, JR. Nutritional value of mustard and rape seed meals as protein source for rats, 210.
GRIMINGER, P. See Fisher, Hans, 16.
GUGGENHEIM, K., JUDITH ILAN AND E. PERETZ. Effect of dietary carbohydrates and Aureomycin on serum and liver cholesterol in rats, 93.

H

HALE, OTHO M. See Cox, Dennis H., 77.
HALEY, E. E., AND J. P. LAMBOOY. The biological activity of 6-chloro-7-methyl-9-(1′-D-ribityl)-isoalloxazine, 169, 481.

HALVER, JOHN E., AND WARREN E. SHANKS. Nutrition of salmonoid fishes. VIII. Indispensable amino acids for sockeye salmon, 340.
HANSEN, R. GAURTH, Borden Award recipient, 473.
HANSON, SYLVIA D. See Mayer, Jean, 3.
HARPER, A. E. See Morrison, Mary A., 302.
HARPER, A. E. See Rogers, Q. R., 331.
HARTSOOK, E. W., AND T. V. HERSHBERGER. A study of the effect of deoxypyridoxine or isonicotinic acid hydrazide upon tissue potassium and sodium content of pyridoxine-deficient male rats, 297.
HEGGENESS, F. W., AND S. LERMAN. Relationship between metabolism of xylose and cataractogenesis in the weanling rat, 309.
HEPBURN, F. N., W. K. CALHOUN AND W. B. BRADLEY. A growth response of rats to glutamic acid when fed an amino acid diet, 163.
HERSHBERGER, T. V. See Hartsook, E. W., 297.
Hesperidin and rutin compared with ascorbic acid in peripheral vascular physiology, 203.
HOLT, L. EMMETT, JR. See Snyderman, Selma E., 404.
HOPPER, SARAH. See Axelrod, A. E., 325.
Hormones, dietary, and fat and serum cholesterol, transaminases and copper in swine, 77.
HORWITT, M. K. See Century, Bernard, 357.
HOUSE, H. L., AND J. S. BARLOW. Effects of oleic and other fatty acids on the growth rate of *Agria affinis* (Fall.) (Diptera: Sarcophagidae), 409.
HOWE, E. E., AND D. K. BOSSHARDT. Antibiotics and plasma cholesterol in the mouse, 368.
HOWE, E. E., AND D. K. BOSSHARDT. Further studies on the effect of chlortetracycline on plasma cholesterol of the weanling mouse, 375.
HOWE, E. E., D. K. BOSSHARDT AND J. W. HUFF. Effect of bile acids on plasma cholesterol in the mouse, 379.
HOWE, PAUL E., citation as Fellow, 473.
HSIEH, A. C. L., AND K. W. TI. The effects of L-thyroxine and cold-exposure on the amount of food consumed and absorbed by male albino rats, 283.
HSU, JENG M. See Okuda, Kunio, 99.
HUFF, J. W. See Howe, E. E., 379.
Human(s) adults, young, effect on apparent digestibility coefficients of energy-yielding components of a nutritionally adequate mixed diet, 177.
—, availability of isoleucine in corn to, 379.
—, — of threonine in corn to, 389.
— nutrition, comparison of pattern of human milk with FAO pattern in, 404.
— riboflavin excretion, effect of various factors on, 251.

I

ILAN, JUDITH. See Guggenheim, K., 93.
Influenza virus PR-8, effect of certain B-vitamins on antibody formation to, 325.
Iron and copper metabolism and growth of rats fed high levels of zinc, 233.
— metabolism, aberrant and "cotton-fur" abnormality in mink, 46.
—, requirement and utilization by baby pig, precedence of tissue need over hemoglobin need, 459.
Isoalloxazine, 6-chloro-7-methyl-9-(1′-D-ribityl), biological activity of, 169, 481.
Isoleucine from corn, availability to man, 397.
Isoniazid or deoxypyridoxine, effect on K and Na tissue content of pyridoxine-deficient rats, 297.

J

JENSEN, LEO S., AND JAMES MCGINNIS. Influence of selenium, antioxidants and type of yeast on vitamin E deficiency in the adult chicken, 23.
JOHNSON, B. CONNOR. See Metta, V. Chalam, 455.
JOHNSON, R. BERNAL, DONALD A. PETERSON AND BERT M. TOLBERT. Cellulose metabolism in the rat, 353.
JOHNSTON, PATRICIA V. See Shah, S. N., 81.

K

Kaolin- or cellulose-diluted rations, effect on weight gain and feed intake of chick, 441.
KEYS, ANCEL. See Tucker, Robert G., 251.
KNUDSON, ARTHUR, tribute following death of, 473.
KUMMEROW, F. A. See Shah, S. N., 81.

L

LAMBOOY, J. P. See Haley E. E., 169, 481.
LEASE, E. J. See Lease, J. G., 66.
LEASE, J. G., B. D. BARNETT, E. J. LEASE AND D. E. TURK. The biological unavailability to the chick of zinc in a sesame meal ration, 66.
LEE, RICHARD E. The unique role of ascorbic acid in peripheral vascular physiology as compared with rutin and hesperidin; a micromanipulative study, 203.
LEICHSENRING, JANE M. See North, Barbara B., 217.
LENGEMANN, F. W. See Raven, A. M., 29.
LERMAN, S. See Heggeness, F. W., 309.
LEVEILLE, G. A., R. SHAPIRO AND HANS FISHER. Amino acid requirements for maintenance in the adult rooster. IV. The requirements for methionine, cystine, phenylalanine, tyrosine and tryptophan; the adequacy of the determined requirements, 8.
LINKSWILER, HELLEN, HAZEL METZ FOX AND PEGGY CROOKE FRY. Availability to man of amino acids from foods. III. Threonine from corn, 389.
LINKSWILER, HELLEN, HAZEL METZ FOX AND PEGGY CROOKE FRY. Availability to man of amino acids from foods. IV. Isoleucine from corn, 397.
Linoleic acid, nonsynthesis by laying hen, 451.
Linoleic ester, purified, effect on cholesterol in rat, 196.
Lipid(s), diet, effect on appearance of dystrophy and creatinuria in vitamin E-deficient rat, 357.
—, serum, levels of young women consuming animal and vegetable protein diets with same fat content, 317.
Liver, antithyrotoxic factor. V. Failure of thyrotoxicosis to deplete activity in swine tissues, 293.
LLOYD, L. E. See Crampton, E. W., 177.

LYMAN, R. L., AND SUE STEWART WILCOX. Functional pancreatic damage produced by ethionine, and its relation to methionine deficiency, 265.
Lysine and threonine supplementation of bread protein, 423.
— effect on absorption of radiocalcium and radiostrontium by rat, 29.
— requirements and nitrogen retention of adult humans, effect of caloric intake on, 87.

M

MACKENZIE, COSMO G. See Mackenzie, Julia B., 322.
MACKENZIE, JULIA B., AND COSMO G. MACKENZIE. The antisterility activity of α-tocohydroquinone in the female rat, 322.
MACY-HOOBLER, ICIE G., Citation as Fellow, 473.
MAGEE, ADEN C., AND GENNARD MATRONE. Studies on growth, copper metabolism and iron metabolism of rats fed high levels of zinc, 233.
Magnesium- or potassium-deficient diet and myotoxic effect of $NaClO_4$, 37.
Manganese metabolism in college women, 217.
MARTIN, POLLY G. See Wright, Janet B., 314.
MATRONE, GENNARD, E. L. THOMASON, JR. AND CLARA R. BUNN. Requirement and utilization of iron by the baby pig, 459.
MATRONE, G. See Van Campen, Darrell R., 277.
MATRONE, GENNARD. See Magee, Aden C., 233.
MAYER, JEAN, AND SYLVIA D. HANSON. Michel Eugene Chevreul—A biographical sketch, 3.
MAYNARD, LEONARD A., Citation as Fellow, 473.
MCCLURE, F. J. The cariostatic effect in white rats of phosphorus and calcium supplements added to the flour of bread formulas and to bread diets, 131.
MCGINNIS, JAMES. See Jensen, Leo S., 23.
MCKIRDY, HELEN B. See Crampton, E. W., 177.
MEISS, A. N. See Chirigos, Michael A., 121.
MERTZ, EDWIN T. See Clark, Helen E., 87.
Metabolic patterns in preadolescent children. III. Sulfur balance on three levels of nitrogen intake, 314.
Metabolism, cellulose, in the rat, 353.
Methionine, adequacy of determined requirement in adult rooster, 8.
— deficiency in rat, relation to functional pancreatic damage produced by ethionine, 265.
— utilization by adult rat. I. Distribution of α-carbon of DL-methionine-2-C^{14} in tissues, tissue fractions, expired carbon dioxide, blood and excreta, 185.
METTA, V. CHALAM, AND B. CONNOR JOHNSON. Effect of feeding vitamin K-deficient diets to female rats, 455.
MICKELSEN, OLAF. See Tucker, Robert G., 251.
Milk, human, amino acid reference pattern and FAO pattern in human nutrition, 404.
MONE, P. E. See Poling, C. E., 109.
MORRISON, A. B., AND J. A. CAMPBELL. Vitamin absorption studies. I. Factors influencing the excretion of oral test doses of thiamine and riboflavin by human subjects, 435.
MORRISON, MARY A., MAY S. REYNOLDS AND A. E. HARPER. Amino acid balance and imbalance. V. Effect of an amino acid imbalance involving niacin on liver pyridine nucleotide concentration in the rat, 302.
MORSE, ELLEN H. See Walker, Georgianna R., 317.
MOSCHETTE, DOROTHY S. See Wright, Janet B., 314.
MURLIN, JOHN R., tribute following death of, 473.
MURPHY, G. F. See Sourkes, T. L., 145.
MURTY, N. L., MARY C. WILLIAMS AND RAYMOND REISER. Nonsynthesis of linoleic acid from acetate-1-C^{14} by the laying hen, 451.
Muscular dystrophy and creatinuria in vitamin E-deficient rat, effect of diet lipids in appearance of, 357.
— —, experimentally induced; blood creatine levels and histopathological changes in dystrophic rabbits, 289.
Mustard and rape seed meals, nutritional value as protein source for rats, 210.
Myopathies, experimental, prevention by various chlorides, 37.

N

NELSON, T. S., AND L. C. NORRIS. Studies on the vitamin K requirement of the chick. I. Requirements of the chick for vitamin K_1, menadione and menadione sodium bisulfite, 137.
NEWBERNE, P. M., J. E. SAVAGE AND B. L. O'DELL. Pathology of arginine deficiency in the chick, 347.
NORRIS, L. C. See Nelson, T. S., 137.
NORRIS, LOANA M. See North, Barbara B., 217.
NORTH, BARBARA B., JANE M. LEICHSENRING AND LOANA M. NORRIS. Manganese metabolism in college women, 217.

O

O'DELL, B. L. See Savage, J. E., 347.
OKUDA, KUNIO, JENG M. HSU AND BACON F. CHOW. Effect of feeding D-sorbitol on the intestinal absorption of vitamin B_6 and vitamin B_{12} in rats, 99.
OLDFIELD, J. E. See Stout, F. M., 46.
Osborne and Mendel award in nutrition, 1961, invitation, 105, 262, 387.
OVERBY, L. R., AND R. L. FREDRICKSON. The antithyrotoxic factor of liver. V. Failure of thyrotoxicosis to deplete the activity in swine tissues, 293.
OVERLEY, VIRGINIA A. See Walker, Georgianna R., 317.
Oxytetracycline and succinylsulfathiazole, effect on plasma cholesterol in the mouse, 368.

P

Pancreatic damage, functional, in rat, produced by ethionine and relation to methionine deficiency, 265.
Pantothenic acid, pyridoxine and thiamine deficiencies, effect on antibody formation to influenza virus PR-8 in rats, 325.
PAWLOWSKI, MARY D. See Quackenbush, F. W., 196.
PERAINO, C. See Rogers, Q. R., 331.
PERETZ, E. See Guggenheim, K., 93.

PETERSON, DONALD A. See Johnson, R. Bernal, 353.
Phenylalanine, adequacy of determined requirement in adult rooster, 8.
PHILLIPS, P. H. See Suttie, J. W., 429.
Phosphorus and calcium supplements in bread formulas and diets, cariostatic effect in the rat, 131.
PISANO, JOHN J. See Chirigos, Michael A., 121.
POLING, C. E., W. D. WARNER, P. E. MONE AND E. E. RICE. The nutritional value of fats after use in commercial deep-fat frying, 109.
Pork proteins, rate of digestion in rats, 331.
Potassium and sodium, effect of deoxypyridoxine or isoniazid upon tissue content of pyridoxine-deficient rats, 297.
—- or magnesium-deficient diet and myotoxic effect of $NaClO_4$, 37.
Proceedings of the Twenty-Fourth annual meeting of the American Institute of Nutrition, 473.
Protein and manganese metabolism in women, 217.
—, animal and vegetable, diets of same fat content, effect on serum lipid levels of young women, 317.
— -depleted animals, nutritional requirements of. I. Effect of different protein depletion regimes on body composition during depletion, repletion and redepletion, 153.
— digestion *in vivo*. III. Recovery of nitrogen from stomach and small intestine at intervals after feeding diets containing different proteins, 331.
—, effect of 6 sources on growth of the confused flour beetle, 121.
— source for rats, nutritional value of mustard and rape seed meals as, 210.
Pyridine nucleotide, liver, concentration, effect of an amino acid imbalance involving niacin, in rat, 302.
Pyridoxine, effect on cholesterol metabolism, 81.
—, pantothenic acid and thiamine deficiencies, effect on antibody formation to influenza virus PR-8 in rats, 325.
—, riboflavin and thiamine deficiencies, effect on catecholamine content of rat tissue, 145.

Q

QUACKENBUSH, F. W., AND MARY D. PAWLOWSKI. Effects of purified linoleic ester on cholesterol in the rat, 196.

R

Radiocalcium and radiostrontium, effect of lysine on absorption by the rat, 29.
RAHMAN, M. M., C. W. DEYOE, R. E. DAVIES AND J. R. COUCH. Selenium and exudative diathesis in chicks and poults, 71.
Rape and mustard seed meals, nutritional value as protein source for rats, 210.
RAVEN, A. M., F. W. LENGEMANN AND R. H. WASSERMAN. Studies of the effect of lysine on the absorption of radiocalcium and radiostrontium by the rat, 29.
REISER, RAYMOND. See Murty, N. L., 451.
REITZ, LOIS L. See Clark, Helen E., 87.
REYNOLDS, MAY S. See Morrison, Mary A., 302.
Riboflavin and thiamine excretion in man, factors influencing, 435.
— excretion in man, effect of sleep, work, diuresis, heat, starvation, B_1 intake and bed rest, 251.
—, pyridoxine and thiamine deficiencies, effect on catecholamine content of rat tissue, 145.
—, reversible inhibitor of, 169, 476.
RICE, E. E. See Poling, C. E., 109.
ROGERS, Q. R., M–L. CHEN, C. PERAINO AND A. E. HARPER. Observations on protein digestion *in vivo*. III. Recovery of nitrogen from the stomach and small intestine at intervals after feeding diets containing different proteins, 331.
ROHDENBURG, E. L. See Rosenberg, Hans R., 415, 423.
ROSENBERG, HANS R., E. L. ROHDENBURG AND R. E. ECKERT. Multiple amino acid supplementation of white corn meal, 415.
ROSENBERG, HANS R., E. L. ROHDENBURG AND R. E. ECKERT. Supplementation of bread protein with lysine and threonine, 423.
Rutin and hesperidin compared with ascorbic acid in peripheral vascular physiology, 203.

S

Salt mixture, improved, for purified-type chick diet, 243.
SAVAGE, J. E. See Newberne, P. M., 347.
SCHAD, DONNA J. See Crampton, E. W., 177.
SCRIMSHAW, NEVIN, Osborne-Mendel Award recipient, 473.
Selenium and exudative diathesis in chicks and poults, 71.
—, antioxidants and type of yeast, influence on vitamin E deficiency in adult chicken, 23.
SELYE, HANS, AND EORS BAJUSZ. The prevention of experimental myopathies by various chlorides, 37.
SERONDE, JOSEPH, JR. Cardiac lesions and related findings in young vitamin B_6-deficient rats, 53.
SHAH, S. N., PATRICIA V. JOHNSTON AND F. A. KUMMEROW. The effect of pyridoxine on cholesterol metabolism, 81.
SHANKS, WARREN E. See Halver, John E., 340.
SHAPIRO, R. See Fisher, Hans, 16.
SHAPIRO, R. See Leveille, G. A., 8.
SIBBALD, I. R., S. J. SLINGER AND G. C. ASHTON. The weight gain and feed intake of chicks fed a ration diluted with celulose or kaolin, 441.
SKELLENGER, MARIE L. See Wright, Janet B., 314.
Sleep, effect on riboflavin excretion in humans, 251.
SLINGER, S. J. See Sibbald, I. R., 441.
SNYDERMAN, SELMA E., L. EMMETT HOLT, JR. AND AUDREY BOYER. Amino acid reference patterns: a comparison of the pattern of human milk with the FAO pattern in human nutrition, 404.
D-Sorbitol, effect on intestinal absorption of vitamins B_6 and B_{12} in rats, 99.
—, effect on liver cholesterol in rat, 93.
SOURKES, T. L., G. F. MURPHY AND V. R. WOODFORD, JR. Effects of deficiencies of pyridoxine, riboflavin and thiamine upon the catecholamine content of rat tissues, 145.
Soybean protein, rate of digestion in rats, 331.
SPECTOR, HARRY, tribute following death of, 473.

Spies, Tom D., tribute following death of, 473.
Spivey Fox, M. R., and G. M. Briggs. Salt mixtures for purified-type diets. III. An improved salt mixture for chicks, 243.
Starvation, acute, effect on riboflavin excretion in man, 251.
Stout, F. M., J. E. Oldfield and John Adair. Aberrant iron metabolism and the "cotton-fur" abnormality in mink, 46.
Succinylsulfathiazole and oxytetracycline, effect on plasma cholesterol in the mouse, 368.
Sulfur balance with three levels of nitrogen intake in preadolescent children, 314.
Summers, J. D., and Hans Fisher. The nutritional requirements of the protein-depleted chicken. I. Effect of different protein depletion regimes on body composition during depletion, repletion and redepletion, 153.
Suttie, J. W., and P. H. Phillips. Fat utilization in the fluoride-fed rat, 429.

T

Taurocholic acid less hypercholesterolemic than cholic acid in mouse, 379.
Taylor, M. Wight. See Chirigos, Michael A., 121.
Thiamine and riboflavin excretion in man, factors influencing, 435.
—, pantothenic acid, and pyridoxine deficiencies, effect on antibody formation to influenza virus PR-8 in rats, 325.
—, riboflavin and pyridoxine deficiencies, effect on catecholamine content of rat tissue, 145.
Thomas, O. O. See Goering, K. J., 210.
Thomason, E. L., Jr. See Matrone, Gennard, 459.
Threonine and lysine supplementation of bread protein, 423.
— from corn, availability to man, 389.
Thyrotoxicosis, failure to deplete activity of liver antithyrotoxic factor in swine tissues, 293.
L-Thyroxine and cold exposure, effects on food consumption and absorption by the rat, 283.
Ti, K. W. See Hsieh, A. C. L., 283.
α-Tocohydroquinone, antisterility activity of, in female rat, 322.
Tolbert, Bert M. See Johnson, R. Bernal, 353.
Tribolium confusum (Duval), confused flour beetle, effect of 6 protein sources on growth of, 121.
Tryptophan, adequacy of determined requirement in adult rooster, 8.
Tucker, Robert G., Olaf Mickelsen and Ancel Keys. The influence of sleep, work, diuresis, heat, acute starvation, thiamine intake and bed rest on human riboflavin excretion, 251.
Turk, D. E. See Lease, J. G., 66.
Turolla, Enrico. See Bertazzoli, Cesare, 467.
Tyrosine, adequacy of determined requirement in adult rooster, 8.

V

Van Campen, Darrell R., and G. Matrone. Investigation of precursors of ruminal fatty acids of sheep fed purified diets, 277.
Vitamin absorption studies. I. Factors influencing excretion of oral test doses of thiamine and riboflavin in man, 433.
— B_1, effect on riboflavin excretion in man, 251.
— B_6 and B_{12} and effect on intestinal absorption of feeding D-sorbitol, 99.
— B_6-deficient rats and cardiac lesions, 53.
— B_{12}, a new analogue of, more efficient for growth response of rats, 467.
— E-deficient female rat, and antisterility activity of α-tocohydroquinone, 322.
— E-deficient rat, role of diet lipids in appearance of dystrophy and creatinuria, 357.
— E, effect on growth promotion by selenium or brewers' yeast in chick and poult, 71.
— K-deficient diets, effect of feeding to female rats, 455.
— K requirement of chick. I. Requirements for vitamin K_1, menadione and menadione sodium bisulfite, 137.

W

Walker, Georgianna R., Ellen H. Morse and Virginia A. Overley. The effect of animal protein and vegetable protein diets having the same fat content on the serum lipid levels of young women, 317.
Warner, W. D. See Poling, C. E., 109.
Wasserman, R. W. See Raven, A. M., 29.
Wilcox, Sue Stewart. See Lyman, R. L., 265.
Wilder, Russell M., tribute following death of, 473.
Williams, Mary C. See Murty, N. L., 451.
Women, college, manganese metabolism in, 217.
Women, young, effect of animal protein and vegetable protein diets having the same fat content, on serum lipid levels of, 317.
Woodford, V. R., Jr. See Sourkes, T. L., 145.
Work, effect on riboflavin excretion in humans, 251.
Wright, Janet B., Polly G. Martin, Marie L. Skellenger and Dorothy S. Moschette. Metabolic patterns in preadolescent children. III. Sulfur balance on three levels of nitrogen intake, 314.

X

Xylose metabolism, relationship to cataractogenesis in weanling rat, 309.

Y

Yang, S. P. See Clark, Helen E., 87.
Yeast, type of, selenium, antioxidants, influence on vitamin E deficiency in adult chicken, 23.

Z

Zein, rate of digestion in rats, 331.
Zinc, biological unavailability to chick, fed in a sesame meal ration, 66.
— deficiency in chicks fed sesame meal ration, 66.
—, high levels, growth, Cu and Fe metabolism of rats fed, 233.